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## MEMORANDUM

ON THE

# REVENUE SURVEY DEPARTMENT,

H. H. THE NIZAM'S GOVERNMENT.

MOULAVIE SYED MAHADI ALI

1285-1291 FASLI



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No. 1 of 1882.

To MOULVIE SYUD MAHDI ALI, Esq.,

Revenue Secretary, H. H. the Nizam's Govt.,

From

MAJOR GENERAL GLASFURD,

Gulburga, 6th August, 1882.

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I have the honor to submit, for the information of His Excellency the Minister, the enclosed Memoranda of my inspection of the offices of the Superintendents of Survey and Settlement in the Aurangabad and Gulbarga Divisions, with notes of my inspection of the Record-rooms of the Ta-

It was my intention to have inspected the Tebsildar's office at Pyton, and also to have seen how the village papers are kept by the Zhewarees, and with this view Mr. Furdoonjee Jamshedjee had made all arrangements by sending on tents, &e., when unfortunately heavy rais as in. Notwithstanding this, we made an effort to get to Pyton; but after proceeding a few miles in that direction, we were obliged to give up the trip owing to the heavy state of the

As full details of my inspection will be found in the euclosed Memoranda, I will only state here, briefly, the conclusion I have arrived at from my visits to Aurangabad and Gulburgs.

Ist. As regards the measurements, mapping, and classifleation of villages field by field, I have been most favorably impressed with what I have seen, and judging from five years' personal experience of the Bombay Revenue Survey, I feel convinced that the work done by the Aurangabad and

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Gulburga Survey Departments, will compare favorably with that done by any similar establishments either in Bombay or Berar.

2nd. I think there are some matters of detail and internal administration, which will admit of economy, without endangering or impairing the present efficient condition of the establishments, or the excellent character of the work done.

3rd. The short time I have passed at Aurangabad and Gulburga, and my inability to move amongst the people does not permit me to speak of the actual working of the settlement.

4th. I think it may be possible to reduce the cost of boundary marks. The present cost to each holder of a field will probably be found to range from about two rupces to four, and even five rupces, and as this has to be paid before the people have a chance of comprehending the benefits of the settlement, it is not to be wondered at if it has the effect of introducing the survey and settlement in an unfavorable light.

5th. I saw all the Amistants and Sub-Amistants several times. They appear to be an efficient body of officers. They are all familiar with the language of the records, Mahrathi, and whatever their nationsity, all keep their books in Mahrathi I I was agreeably surprised to find that both Mahomedans and Pursees were perfectly at home in the sermenties.

6. Much credit is due to Mr. Furdoonjee Jamshedjee and Mr. Kader Beg for the efficient condition in which they maintained their establishments, and the out-turn of the work done. They appear to have exercised supervision with intelligence and judgment; and all branches of the Department bear the impress of their zeal and industry.

7th, As one who has had several years' experience of both the Bombay and North-West Provinces system of

Survey and Scttlement, I cannot conclude without expressing my high appreciation of the ability and perseverance by which you have brought the Survey and Settlement Department, in such a comparatively short period, to its present high state of efficiency.

Sth. I must express my best thanks for the kind attention that has paid me during my tour by Mr. Furdoonjee Jamshedjee, Mr. Kader Beg, Mr. Burjorjee Manockjee, Talukdar of Aurangabad, and Mr. Ikram Ulla Khau, Sudder Talukdar of Gullburga.

I have the honor to be,

Sir,
Your most obedient Servant,

(Signed) C. L. R. GLASFURD, Survey and Settlement Commissioner. Notes of Inspection of the offices of the Superintendents Survey and Settlement Aurangabad and Gulburga Divisions.

The buildings in which the Superintendents have their offices, both at Aurangabad and at Gulburga, are in excellent order and in every way suitable for the purposes for which they were constructed. The accommodation is ample for present re-

At Aurangabad the Assistants in charge of measuring establishments find their own offices. At Gulburga all establishments are under the same roof.

There are sixteen Assistants and Sub-Assistants on the strength of the Aurangabad Survey Assistants and Sub-Department, and thirteen on the findings Department.

With the exception of two or three absent on leave, I called hearly all these officers before me separately, examination of the called hearly all these officers before me separately, examination of the called hearly and plots, noticed the results of checks exercised in the Superintendents' offices, and ascertained the progress of the work made by each officer, and the difficulties, if any, encountered by them.

I found the field books, with one or two exceptions, very well kept, and the work done in a business-like manner. The pletting is neatly done and the areas of fields correctly calculated, as is proved by the tests taken of the work of each Assistant in the offices of the Superintendents

I made one Assistant take a test of five fields of a village close to Aurangabad in my presence, and was satisfied with his style of doing work. The work when nlotted proved to be very sequents:

Similarly I took a test of the classification of another village. On this occasion two Assesses are notes without any commu-

nication with each other. The result disclosed a very slight difference in the opinion of the value of land of all the testers.

Tests could not be taken at Gulburga, as the survey operations have not yet arrived at that point.

ations have not yet arrived at that point.

I saw the examination of books and maps that is being done at Head-Quarters in the offices of hooks and blaps at least danters.

Of most of the Assistants, and in the Superintendents' offices in all its starcs. The system of check maintained is very good

and ensures that what is done is sufficient in quantity and good in quality.

I examined the office account books of most of the Assist-

I examined the office accounts to book as more as a same anti in charge of measuring establishments, and was satisfied with the manner in which they are kept. Care will have to be taken that no Assistant retains more Ger-

ernment money in his custody than is absolutely necessary.

I examined the lithographic and printing presses. They
are under sufficient supervision as

Lithographic and Printing Presses.

are under sufficient supervision as to the amount of work turned out and the quantity of paper used.

I examined the method on which the copies of village

Fair Village Maps.

The checks maintained prepared. The checks maintained prepared. The checks maintained prepared of the copies of village was a contract to the copies of village with the copies of village was a contract to the cop

for the detection of errors, and to ensure accuracy are ample.

I made a careful inspection of the records of some villages

Settlement Records,
that have been settled, calling for
papers at random, and satisfying myself, that any domment that is required can be produced without delay.

The manner in which the records are filed, and their registers are kept, is very satisfactory. Nothing could be better than the arrangement of the Record-room at Gul-

burga which is fitted up with racks for keeping the records in complete order.

I made a careful impaction of the Store-room registers and the stock in hand on the date Stores. Contingencies, instruments and stationery. I traced articles cantered as contingencies, instruments and stationery. I traced articles cantered as contingencies from their purchase from the local traders to the cutries showing payment for them in the Accountant's Department which is under the Deputy Superintendents, and to the entires showing to whom the articles had been issued. I went carefully through the books showing the stock in hand of instruments and stationery and their issue to the different establishment.

I farther satisfied myself by actual inspection of the balances of stock in hand of various articles, and comparing these with the entries in the registers that the articles were really in hand at the date of my visit.

I was perfectly satisfied with the result. Everything is done to check the irregular or unauthorized issue of stores to any Departments.

In Gulburga the store-room is being fitted with racks, &c.; this, when completed, will be a great improvement on the present method of keeping stores in boxes and amirabs.

I examined the Accountants' Department which is under Accounts. the supervision of Deputy Superin-no money can be paid without an order from the Superint tendents or Deputy Superintendent if the Tecepisa are taken for payments, and the accounts rendered with punctuality to the Accountant-General.

(Signed) C. L. R. GLASFURD.

### MEMORANDUM

ON THE

# REVENUE SURVEY DEPARTMENT.

H. H. THE NIZAM'S GOVERNMENT,

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### MAULVIE SYED MAHADI ALI-

As I am about to sever my connection with the Revenue Survey Department, with which I have been associated, from its commencement in 1285 Faali (1875-76), down to the present date, a period extending over seven years, I wish to place on record a brief outline of the circumstances under which the work was started, the progress it has made, and the results thichero attained.

The survey operations were first started in the Aurangabad district, it is desirable therefore that I should prefice only account with a few remarks on the past revenue management of that tract of country, and speaking broadly, these remarks may be applied to the whole of the Mahratta Districts of His Highness' Dominion.

Up to the year 1263 Fasli (1853-54), it had been the

custom to farm out the land Revenue to irresponsible individuals, who, naturally enough, made it their duty to extort as much money as they could from the raiats. Having this end in view, they employed every means in their power to and Naibs, on whom devolved the duty of fixing the annual assessments and collecting the Revenues. The annual settlement was made on the most primitive principles, the Sudder Naib assessing each pergunna in a lump sum, and the Naib distributing this sum over each village. The Patel and Patwadi in their turn apportion the sum fixed on their village among the cultivators, and holding lands themselves, it was their interest to see that their own and their brethren's share was made as light as possible. Thus while the favoured few escaped with light assessments the main portion of the cultivators were ground down with inordinately heavy exactions. This inequality of assessments led to the impoverishment of most of the raiats. About 1264 Fasli the system of Revenue farming was abolished, and the State undertook to deal directly with the cultivators, the practice of assessing villages in the gross was discontinued, and a method of assessing each individual cultivator was introduced. These measures were, I need not say, highly beneficial to the raiats. The cultivator's tenure was now secure, and he did not live in fear of ananally enhanced assessments. The area under cultivation steadily increased, and there was a proportionate enhancement in the revenue. In spite, however, of these improvements, much yet remained to be done. The fields had not been accurately measured; the soils had not been classed according to their relative values; and as a natural consequence, it followed that the assessments were very unequally distributed on the different holdings. From 1275 down to 1284, most of the Revenue officers continued to represent this state of things to

Government, and to urge the uscessity of fixing equable assessments on the lands. Government sought to remedy these evils by having some talukas surveyed by Patwadis. But this experimental measure did not auccod in fact, it only made matters worse. The recenus efficers then urged upon Government the necessity of a regular survey and settlement. Government, therefore, finally decided in 1285 Fasil, upon starting survey operations without any further delay. Experimental operations were first commenced in the Patisn tabules, and as they proved successful, the work was gradually extended to other disticts. The following quotation from my Annual Report, submitted to Government in 1295 High; gives a chief account of the beginning of the work.

" As stated in the second paragraph of the Superintendent's Report, survey operations were at the outset, undertaken merely as an experimental measure, and on two different systems, with a view to ascertain by actual trial which was best adapted to this country. In some villages they were conducted on the principles prevailing in the North-West Provinces; while in others, the Deccan system was adopted. The points of difference between these two methods were carefully noted, and their relative advantages and defects minutely observed. My long and intimate acquaintance with the system in the North-West Provinces had naturally prejudiced me in its favour, and I must candidly confess that if the matter had solely rested in my hands, I would have introduced it here in preference to that obtaining in the Deccan. But as the Covernment did not leave the choice entirely to me, but desired to see for themselves the results of both these systems before making a final selection, it was determined to inaugurate the survey in a few villages by way of experiment on either of these methods. This resolution having rendered it necessary for

me to juguine into the principles of the Bonthey sweten. with which I was a portest stranger, I took pains to study written by the affind afficers with whom the system in arression originated, and in the conveywary which was carried West Provinces, and the Rombay Survey authorities. And not to rely on mere secondary knowledge and information. in obedience to Government orders, I travelled over the Poons, Ahmednuggur, Khandesh, and Akola districts, and made myself personally acquainted with the working of the survey in these parts. These inquires proved very nseful in the end, for they convinced me that the Deccan system was more suited to this country, and that the introduction of the other would not only be attended with serious consequences, but would revolutionize the whole system on which the administration of the land Revenue was carried on; because however suited the latter system might be to the North-West Provinces, where the zemindaree tenure is the prevailing form of occupancy, it would not answer in this country where the ryotwadi system prevails. Moreover, in fixing upon the Bombay system we would be following a sure guide, for it is now upwards of thirty years since it was first introduced into the greater part of the Bombay Presidency, during which period it has been attended with signal success. Ultimately, therefore, I recommended to the Government the adoption of the Bombay system, which they were pleased to sanction on an examination of the result produced by the trial survey. Our present operations are conducted on that system, with the exception of a few trivial changes in the minor details effected to suit local circumstances. It is to the adoption of this system that the success already achieved is mainly due, for it has saved us from many errors in to which it was easy to fall."

Tywarh of inition the Paine solute, was surrouged and several willages obscured, under my direct supersistent; houses I had a good apportunity of observing the working in density of the Bunning Steamy system, and forming my own judgement in the nation.

was not what it ought to have been. The work, for want of some field books were kept in one form in Persian, others was very unsatisfactorily performed. The holders of land had been directed to construct their own marks, and as were naturally remiss in doing so. And thus weeks claracd before the marks were erected, and a great deal of the measurer's time was in consequence lost. In many cases owing to the raint's ignorance most of the marks that were constructed were not made to fall straight on the boundary lines. Acting on the experience gained eract their own marks was discontinued, and the work was of upwards of a hundred villages were measured accordingly. At this stage we found that according to the standsurvey would not correspond with the maps got up by the British Survey, for this reason that their standard of Their measurements were made by a 33 feet chain, and their village maps prepared on a scale of 20 such chains to an inch, whereas our measurements were carried out with a 36 feet chain, while the maps were got up on the same scale of 20 chains to an inch. I at once represented to Government the necessity of adopting the English statuate acre as the unit of measurement instead of the beega, and Government were pleased to sanction my proposal. Thence a forth the acre was adopted as the standard. The boundaries of such maps as were prepared on the beega measurement were extended to meet the new scale.

It will thus be seen that we were beset with many difficulties in our first attempt in carrying out survey operations. We had no organised staff of trained measurers and supervisors, and it was a matter of great difficulty to obtain the services of trained men for the work. The following quotation from my Annual Report sent in 1295 Hipre deals with this portion of the subject;

" It will be acknowledged that special qualifications are necessary in the officers, before accuracy and perfection can be ensured in survey and classification operations, and that it is not without considerable experience that good measurers and classers are made. Unless, therefore, we collect proficient and experienced men, the work cannot be expected to get on well. When commencing operations, we were able to obtain a few hands from Poona and elsewhere, but they were found wanting in the requisite qualifications and in local knowledge. But since Mr. Furdoonjee took charge of this Department, he obtained a number of qualified hands for the work, and Mr. Beynon also kindly furnished us with some competent men. But this slight accession of strength was insufficient for carrying on the work, and more officers were necessary. I, therefore, solicited the Government in my

letter No. 20, dated the 20th Rajab 1920 Hijres, to permit ne to train men for the work, and they were pleased to sanction my proposal in letter No. 2120 of the 28th Shaval 1203 Hijres, and in the order of His Excellency the Minister No. 2109, dated 26th Shaval 1203 Hijres. In pursuance of these instructions the work of education was taken in hand.

" I adopted two measures for training men. The first was to give them a practical knowledge of the working of the Revenue Survey, by sending them to the actual spot when the operations were being conducted, under the supervision of Mr. Furdoonjee. The second was to impart to them a theoretical knowledge of the work, for which purpose I established a school at Hyderabad which I personally superintended. In establishing this school, the main object in view was to induce the sons of noblemen and of the wealthy middle-class in His Highness' territories to undergo a thorough training in the work of the Revenue Survey, for it cannot be gainsaid that the subjects of His Highness have greater and more immediate claims to the service than foreigners, and that it is the duty of the Government to qualify them for the work by training. Of the men trained under the Superintendent, some belonged to the Roorkee College, and some had served either in the North-West Provinces or in the Punjab Surveys. These men required no theoretical knowledge of our system; all that was wanted was an acquaintance with the rules and regulations in force. Others, indeed, were quite new to the work, but they passed their examination creditably, and were placed in charge of measuring establishments. I have every reason to hope that of the men now being trained, nearly two-thirds will be able to pass the necessary examination. As regards the training school of Hyderabad, the inducement of getting a monthly salary attracted at first nearly three hundred students to the establishment, but most of them could not long stand hard work, and their names had to be struck off the roll, owing to treegelar attendance and idle habits. Of the remsining, nearly eighty students were able to pass the necessary examination, and were pronounced qualified for service. A few students were sent up to your (Sadar-col-Maham's) office for examination, and the result was satisfactory, as in your letter No. 600 of the 28th Rubbanii 1204 Hijree, to the address of His Excellency the Minister, you state—'The attendance were examined by us, and it gives us much pleasure to state that the knowledge they had acquired their work in a surprisingly short period was highly creditable to the teacher, and afforded ample evidence of the pains that had been taken in their training. The students can read and write Mahratat very well, and the progress they have made is highly creditable. His Excell

""Cladeathedly the sequirements of the pupils hear conclusive testimony to the care and pains that have been bestowed on their studies by the teachers. Still it is essentially necessary that the pupils themselves should also evince the livelise futerest in their studies, and if this is done the pupils and the teachers will be deserving of the hichest praise.

"It is with 'findings of repret that I have to record that the people of this country are, by their natural disposition, unsuited to serve in this Department of the Public Service, the reason lying in the first that their indebent and sedentary habits make them until for the hard physical accretions which a surveyor has to undergo almost every day. Those of them with have qualified themselves for the task turn out a very small quantity of work, in comparison with what their boutines from other parts of

the country accomplish. Complaints are constantly received on this head from the Superintendent and his Assistants. It will be observed from Mr. Beynon's diary, that he too expresses doubts as to whether the men who are being taught will make hard working surveyors. The sane kind of complaint is made in Mysore and in several other places. It will, I am afraid, he long before the inhabitants of this province can bring themselves to work as hard as the Brahmins of Dharwar or Khandesh, or the natives of the North-West Provinces."

I would here briefly define what the powers of the Commissioner and the Superintendents are, and their official relations to one another. The Commissioner submits his ed for each survey under different heads. Once the budget is sanctioned, the Commissioner has power to divert the sums sanctioned for one head to another head, so long as he does not exceed the total sum sanctioned for each survey. The details of all administrative arrangements exercises control are left to the Commissioner. Owing to diversity of circumstances, a certain method of practice in one survey may be found unsuitable in another survey. and as the Commissioner is the best judge of these matters, he arranges all details as seem to him heat suited to the state of the country in which the survey is working. The internal management of the survey is left to the discretion of the Superintendent. The appointment of assistants and sub-assistants rests with the Commissioner. but as a rule the Superintendent nominates them, and sends up their names to the Commissioner for sanction. As these officers have to work directly under the Superintendent, who is the responsible head of his survey, it is necessary that he should have a voice in the appointment of his subordinates. With the exception of the assistants and sub-assistants, the appointment of other officers in the different branches of the survey resis entirely with the Superintendent. With the exception of the Aval Carloon, the appointment of the office stablishment rests with the assistant in charge. Confirmation of the Superintendent is required to the nonimation by the Assistant of any measurer or classers.

As regards the office routine work, and the manner in which the survey work is carried on I cannot do better than quote here from the diary kept by His Excellency the Minister during his visit to Aurangahad in the year 1880: in his diary of 17th January of that year His Excellency says:—

" At half-past one this afternoon I went for the inspection of the Revenue Survey Office. In this office there are two different establishments, one under the Superintendent himself, and the other under his Deputy. Besides exercising general supervision over his own and other office the different messuring and classing establishments. To the Deputy is entrusted the supervision over the accounts, stores, printing and mapping branches. The Superintendont himself cannot directly send for any sums of money from the Treasury, nor can he make any disbursements of money, except through his Deputy. The former merely issues the necessary orders, while the latter executes them. Owing to this system, regularity and accuracy are ensured in the accounts, while the work in the stores and mapping branches is carried on with efficiency. I first examined the work that is done under the Superintendent's direct supervision. Mr. Furdoonjee Jamshedjee, the Superintendent. submitted to me all the papers relating to one of the villages already surveyed, by the aid of which he explained to me all the details connected with the operations of measurement and classification in a most lucid manner, enabling me to form a clear conception of all that is done from the time when measurements are commenced to the time when the assessment is made and declared.

"The work in this Department is carried on in the following manner:-

" Each division is placed under a superintendent, who has a staff of assistants under him. Each assistant, placed in charge of a measuring establishment, has a deputy with 25 to 36 measurers; if in charge of a classification establishment he has a deputy with from 12 to 20 classers. In three Carkoons (Mahratta clerks) and four peons. The establishment under these assistants are named alphabetically, being called the A. B. C. &c., Establishments. The measurer daily makes reports of the amount of work performed to the assistant in charge, and the latter reports weekly to the Superintendent, who forwards his diary sa well as those of his assistant's to the Survey Commissioner, and this official is thus enabled to supervise the whole of the work done by the Superintendent and his submeasurers' upwards to the Superintendent's, and I have come to the conclusion that this rule has been strictly observed since the very commencement of the work. The diaries of every officer are bound in a volume, and carefully kept to be shown to any superior officers who might wish to examine them. The system of keeping diaries is very useful, as it is a check upon idleness among subordinates, who are thus compelled to be industrious, and to give true and unexaggerated account of every day's work. When it appears from these diaries that any subordinate has not executed his work in a satisfactory manner, or has been unpardonably idle, an explanation is at once called for, and should such explanation be deemed unsatisfactory, the offender is finers, and on a repetition of the offence dismissed. In addition to these checks, superior officers while on tour make a careful impection of the diaries of their subordinates and test their corrections. For example, a measurement is checked on the spot by an assistant or deputy assistant, and the diaries of the latter officers are again elecked by the Supervision should nairy like tour, and the centil reported to the Revenue Minister, who submits the whole to the Minister. From the foregoing it will be seen that the whole of the members of the Department, from the highest to the lowest, are

"I desired some of the diary files to be produced, and found on careful examination that this portion of the system is so excellently conceived and carried out, that it is impossible for faults of any description, either depart-Survey Commissioner travels over the districts for eight months in the year. This officer, Mr. Aga Shaikh Mahommed, makes a careful inspection of the works of the superintendents and their subordinates. \* \* \* The Survey Commissioner himself has also expressed his high satisfaction with this gentleman's work. His reports are forwarded weekly to the Survey Commissioner, and they are those of a thoroughly independent official. It is a matter of satisfaction to me to notice that this officer distour through the whole of the division last year. He examined the work performed by the majority of the the work generally of the whole Department is carried on satisfactorily and honestly; that the whole of the officials whom he has examined from the highest grade to the lowest deserve great credit for performing their work with zeal and ability. Any misbehaviour or want of attention on the part of any of the most satisfactory manner

"The work of the Survey Departm ly supervised by the Revenue Minister ing and passing any immediate orders upon them corrected. On examining a few of the test plots of the assistants produced by the superintendents, I was satisfied that the above rules were strictly observed. Mr. Beynan, the Survey Commissioner of the Berars, checked the classification of the three Talukas in the district and found the results to be accurate."

Herewith I append a statement showing the cost of the Superintendents, and establishments, their Deputies and establishments and the measuring and classing establishments:—

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establishments, there is a slight difference between one Industry, moder an assistant and sub-assistant. . . . . . . tester than the are prevailing in the Berars, and I would stangely recommend its continuation. The reasons for my med trung this system are as follows :- Whenever an assistcarry on his duties, and being animal to the way and the increase in the amount of work turned out, while the as as a second be few 99 In the third place, owing to officer of the British Revenue Survey, Secontingly, at my request, the services of Mr. Beyoon, Engerintendess by His Excellency the Minister. From the Count of November, 1877, until about the beginning of Farmer 1873, Mr. Beynon travelled over the Aurangahad District and in some of the Talukas, including Pairson, whose the satisfactory, as will be seen from the following cothe work has been carried as exceedingly well com of all the numbers which I have tested, by any cent, while in classification the difference bas in the amounted to two annas. The mounds and attacks have villages the bandhs have been somewhat in smears. The office records in all branches are neatly and carefully trope. being deserted by famine, and at the same time the expenditure has been reasonable." Speaking all the last of the Survey Mr. Beynon says :- "The total cost for the the small pay of the Superintending Cours, the low rates (about one halt) paid for bonnary marks, am also to the fact that flagholders and chainmen receive no mayment, the cost per acre was much less than in Berar. cheanest rate at which the work was ever done in Bone was in the season 1862-68, when the cost per more was 2 annas f pie, and that was when the boundary marks latterly the cost per acre was generally over 3 annas, while the cost of the Aurangabad Survey last season was only I anna III pies (British) per acre." As regards the rates at which contracts for the erection of boundary marks were given out, Mr. Beynon writes :- "The total expenditure on the boundary marks last season was Rs. 1,18,779, of which Rs. 79,186 were spent on mounds, and Rs. 39,598 on stones. The contract rates were Halee Sicca annes 5-1" for mounds and 6 annas for stones, these rates are very reasonable and much less than the lowest contracts entered 10 and annas 6 respectively." I would here state that vailing upon the cheapness of grain, the rate per earthou

At first sight it would appear as if these rates were contractors have to get their labor from great distances in over great distances, over portions of so many hundreds of involves a great amount of supervision. Besides employing spend a large sum in the purchase of tools ; they have to the laborers they import, and in many cases they lose money

One year I invited tenders for the construction of boundary marks, and a few applications at lower rates than we applicants to carry on the work satisfactorily, and so I rejected the tenders. If the contractor is new to his duties, and has not had experience in organizing and ditributing the required labor, his work is naturally consided, and this delay has a detrimental effect on the work of a hundred and odd measurers in the different establishments. disorganizes the system on which they work, and causes a heavy loss to Government. Even with the experienced contractors we have, delays occur at times, every day's delay. At times when stones are not to be either on earts or donkeys from distances of twelve and fitteen miles. In the Telengana country, where any amount of stones can be had, the rates are very low, less than half of what we pay.

But while quoting from Mr. Beynon's diary all that he said in praise of the work done, I must not omit to mention the one fault he had to find in our system of testing.

necessarily to be left to the Nimtandars or testing Carcarries establishments were reciped to an average of also Bombay and Berar, and let the whole of the work he down Reports are consulted, it will be seen that bardly may more than one or two tests per establishment direct the when circumstances have prevented the assistant tom taking the test hunself. I observe that some of the measurers newly appointed draw only Halce Sicca Rs. 10 and even Rs. 8 per mensem ; considering the work they have to do this is too little. In Berars 'Shiknars' or learners. received Rs. 8 and Rs. 10 (Government), and articles of consumption are much dearer now than they were formerly. On being appointed to a village, a measurer received Government Rs. 12, and after six months if his work turned out well, he was entitled to an increase of Rs. 15, and after that his pay was raised by periodical increments of Rs. 10. In Berar there were three peous attached to each establishment on Rs. 8 per mensem, while here there are four, the additional one being required for the " Nimtaudar.' The peons draw Rs. 7 H. S. each, being an aggregate of Rs. 28 per establishment; if the establishments are organized as they were in Berar, the Nimtandar being abolished, it would then only be necessary to retain three peops, and in that case I would suggest that their pay be increased to Rs. 8 each or Rs. 24 per establishment. It is evident that men in the position of measurers and survey neous have numerous opportunities of extorting money or provisions from villagers, and it is difficult to find fault with them unless their pay is such as to raise them above want; if their pay is sufficient they can have no excuse."

I would here explain that when we first attarted work we had no trained agency for testing. Our Assistants had to be trained to the work, and being new to it their manner of work was rather allow, and therefore they had testing Carkons to sasts them. Had it not been for this measure, the Assistant alone would never have been able to do all the testing work himself. But directly the Assistants acquired experience in the work, the testing Carkons were done away with in the latter part of the year 1978. We have not a single testing Carkon now, all the test work being done by the Assistants and Sub-Assistants thermselves, and I believe the precentage of testing done by them in

cach catablighment is a little higher than the Berar Survey. An engards the Mr. Beynon with respect to the salaries of the I would observe that centing ages line advise, i.e., I would observe that centing ages line advise, i.e., I would observe that centing ages line advise, i.e., I would observe the conting ages line advise, i.e., I would not be measured. In January of the year 1880, III. Break Minister visited Auronapabad, and to little later joined three by the Residenty Residents of Residenty Indiana, C. Bell. Judicial Commissioner, Bernes, and Mayer First Assistant Resident. His Received my improved a records of the Revenue Survey Offices and the measurement and cleanification of a few village of Burnool. In the foregoing pages of the measurement and cleanification of a few village of Burnool. In the foregoing pages of the residual of the later of the control of the later of the control of the later of the control of

"Having seen the Humsel Seral I went to sho held I said to did not a measured in my presence. At each basis, bases, boundary, and per pundentiam were many of a cross staff and chain, without the slighted stake. The results were reduced it with the slight were from to tally exactly with the gold book propared in the Settlement Office.

This still it is a term to the Wey, Heating measurement of a name of the still the state of the

went through the process for me. They dag the field which was of 12 acres in twelve different places, and in my presence examined the soil according to the rules laid down for classification. I was glad to see that the result of their several examinations were correct, being excell the same as formerly arrived at by the classers. In my opinions the work of elassification here is done properly and accurately. On my return to Camp Mr. Fitch showed me that the result of his remeasurement by Theodoltte, and that taken by cross staff and chain were assedly the same, there not being the difference of even one per cent. between them, This proves the great accuracy of the work. "

On the 28th of January, the Resident, Col. Bell, and Major Trevor, visited the Survey Offices in company with His Excellency, and the record of their visit is thus made in His Excellency's diary of that date, which I quote

" After two o'clock in the afternoon the Resident, Colonel Bell, and Major Trever paid a visit to the Settlement Office, the Revenue Secretary, Moulvie Mahdi Ali, preraced the inspection with a brief account of the reasons which had induced His Highness' Government to undertake a Revenue Survey and Settlement, and to prefer for that purpose the system in force in Berar. Six months, he said, had been devoted to making trials of the different systems pursued in the N. W. Provinces, Bombay, and Berar respectively, and at last the system pursued in Berar had been adopted as the most suitable to the circumstauces of the country. He then explained how men had been trained for the work, producing the examination papers, by which candidates thus trained had their knowledge tested, showing what pains had been taken in training them. With the exception of 95 Mozenidars and classers one Muddulgar or Assistant Settlement Officer, the entire staff had been trained in this country, and consisted of all classes. Mahomedans, Parsecs, Brahmins, and others. The Settlement Officer, Mr. Furdoonjee, then submitted the survey and classification papers of one village, which were declared to be perfectly regular and correct by Colonel Bell. The work done by Assistant Settlement Officers was then examined, the manner in which they checked survey and classification operations, and filled up returns of their part of the work, showing that since operations were commenced, complete records of supervision, and forms and returns of vegular orders have been kept in the files of the Settlement Officer. The manner in which checks and counterchecks are provided, from the survey up to the Sudder-col-Maham, was then explained to the visitors and the daybook was shown. The statements showing the work done up to the present moment, and the cost of it, were then laid before the party, and the Resident expressed his approval of both. The Assistant Settlement Officer's office was then visited, where the method of keeping accounts and the work done in the godown (for apparatus) were exhibited to the visitors. I have seen them before and recorded my approval of them in my diary in the entry for 25th Mohorum (8th January 1880). Like me, the Resident, too, was pleased with what he saw, and said to Furdoonjee that he thought the work done was satisfactory "

The following copy of a note from the Resident to the address of His Excellency the Minister will show that Sir Richard Meade was very much pleased with his inspection of the Eurrey Offices:—

My Dear Nawas, Aurangabad, 20th January, 1880.

Now that I understand we have finished all that year Excellency wished me to see in connection with the affairs here, I think I may assure you in this way of the very great gostification that has been afforded me by this opportunity of observing their condition and working.

The state of the buildings and the general character of the manner

powhich the work is carried on, so the ascent to enthered from an live came before me, are in every respective election of the same layer exists or the otherals in whose hands the course of the same layer.

The week and accords of the Survey George and parameter as a consistent of the Control of the Co

The section of control of a second type dense from the survey work, but I pulsed that the fact is but a control with an area of the second with

I will only get a set becomes a second as a second of a good only in which there is bound and second on property to a part from

Altersther I cannot then't your Scotlengy to heartly for the great treat you have afforded in Lady Mande and sensely that most interesting visit to Aurangaised and he channing are sensings. All our party will carry away with us most pleasant memories of this crim.

Believe me,
Yours very sincerely,
Signed) RICHARD MEADS.

I will now proceed to notice the difficulties the survey had be content against at the outset, and will briefly now the character that are even now at with. It was not to be expected that hereditary willage officers who hold a great pare of the holds of each district at very low, and non-times nominal rates, and petty revenue officers who acquire this survey with a favorable left. And it is characteristic that the survey with a favorable left. And it is characteristic to that this large budy of officials should major to make the large budy of officials should major to address, and other revenue officers, to a sport of generic registrance. As antecpated the survey use with a certain amount of operations which was graphalic remeased by the meltion I adopted of recommending Governments, product toos of tokuldars who assisted us, and to provide read-

districts. Owing to the position I held as Beremus Sectury, besides being Survey Commissioner, I was enabled to secure the co-operation of the Revenue authorities; and I may, in great measure, aeribe it to my personal influence that such co-operation was extended to the survey. In spite of all this, the opposition made itself felt in several ways. For instance, one or two district officers, knowing very well that survey operations were shortly, to be started in their districts, attempted to forestal us by getting a rough survey of the district made by the village Patwalis, and by raising the assessments on lands generally.

Here I would mention one important work which has been done by the Revenue Survey in the Aurangabad, Beed, and Parbhaini Districts, and that is the settlement of long standing Boundary disputes, which have been a frmitfal source of quarrel among the raints of the villages in which they existed. This is whas His Excellency the Minister is pleased to record on the subject in his diary of the 17th January.

"As regards the decision of the Boundary disputes, the total number of disputes which have arisen since the formation of the Department is 40%; of this number 127 were in respected Jagoer and Government Lunds, and 281, between Government villages. Of the first-mentioned class 117, and 272 of the second class, have been settled, and 19 are pending settlement. Thus, altogether, 380 have been decided; rud the decision curried out. Of the lands in dispute 9.848 becaps of Jagoer land cause to Government, and 6,172 beegas went to the Jagoerdars. The Boundary marks have been creeted in accordance with the decisions given. Even the Jagoerdars who have had to make over hundreds of bigss of hand held to belong to Government, have cheerfully helped to carry out the decisions, and have made over the hauls to Government. The settlement of

these disputes is, I consider, one of the most difficult extrise of the officials of the Department, and they have excressed considerable pinguenet and disserted in desting them. It is a matter of considerable difficulty to settle satissation of the second of the second dispute between Jagoer holders and the Government, set the former not unfrequently some portions of Government lands, and refuse to appear when the matter comes on for bearing; own when they do appear, and the matter in dispute is settled, they refuse to allow the rection of Boundary marks upon their lands. Such disputes not only cutail a loss on Government, but consistently lead to bloodshed, and criminal cases also arise from the same cause.

"Thore have been several examples of this description in His Highness' territories. When the decision of these disputes was entrusted to the Revenue Survey Department, the same difficulties were encountered, but the vigorous action of these officials overcame all obstacles, although in some cases of opposition they were obliged to adopt strong measures, and sometimes the aid of the Police was called in. Eventually all such disputes, many of which had been pending, some indeed being over half a century old, were settled to the satisfaction of either party. In the course of these investigations, it also came to light that the complaints renevally made to Government by the Revenue officials regarding the Jaguerdars are not always free from exaggerations The Patels, Patwaries, and cultivators belonging to Government villages also in some cases are not entirely free from blame. The peaceful settlement, however, of the houndary disputes in this district is sufficient to prove that when Government officials give their decisions with impartiality and discrimination, the Jageerdars willingly meet them half way and abstain from further dispute. On the whole, the officers of this Department are entitled to much eredit for baving arranged such difficult and delicate matters satisfactorily. The thanks of Government are also due to Jaccerdars who have helped in the accommon of these cases."

Much good work in the way of the settlement of Loundary disputes had been done, and was still in gress, when about two years ago orders were issued as the Revenue Minister to the effect that whenever disputes were settled between a Government village on one side and a Jageer village on the other, and the latter, the Superintendent's decision in the case was to be sent up to Government for sanction. It was pointed out, at the time, to the Revenue Minister, that this procedure was opposed to the practice prevailing in that it would involve considerable delay, in the preparation of the village and taluka maps. The Revenue Minisconsequently, latterly, these decisions have been sent up to the office of the Revenue Minister for sanction. In nine cases out of ten, the papers in these boundary dispute cases are returned for further enquiry, and various explanations are called for. Now this careful sifting and weighing of evidence, the institution of minute enquiries on every point connected with the case, the examination of documents which generally are where there is not only strained agency provided to do the work, but where the statute of limitation applies as a bar against the adjudication of cases which go beyond a certain period of time. But in the survey we have to work with individuals who are excellent measuring officers, but who make indifferent judges, and we have to inquire unto dismade from the well known joint Survey Report, that the

founders of the Bombay Revenue Survey thoroughly understood this difficulty:—

"All the more important of these disputes are of long standing, and, in the majority of cases the land has been waste from time immemorial, and rendered of little value to any party by having been converted into a contested grazing ground for the cattle of the several villages claiming any part of it. There is generally no evidence whatever in proof of the original limits, beyond a few vague entries in some of the old village papers which, even if we could depend upon their authenticity, cannot be relied on as affording a true statement of the extent of the dispute at the time they were written; since it was frequently the interest and practice of the village accountant to enter the dispute as larger than it really was, in order to obtain from Government a corresponding deduction from the rental due from the village.

" Such being the case, it seems aiming at impossibilities to attempt to restore with exactness the original boundaries, and any expensive or elaborate investigations having this object in view would prove labour in vain. and would, by investigating the case with undue importance, be found to strengthen the animosity of the contending parties, and to excite on both sides a renawed desire for victory; so that the very elaborateness of the means taken to secure a just decision, justead of promoting that end, would seem to raise an additional barrier in the way of satisfactory settlement. The less importance, therefore, attached by the authorities to these disputes, the more readily will their adjudication he effected and acquiesced in. Moreover, the partition of the disputed land, however made, can hardly fail to confer a benefit on all the parties interested by enabling them to bring their assigned portions under cultivation, and to obtain a certain and often valuable return, in place of a contested pasturage shared by all, and conferring limits benefit on any."

After this, I need not say that it is "niming at impossibilities" to attempt to administer true justice in these matters. The Assistants and the Superintendent who are on the spot, who generally personally inspect the disputed boundaries, and who can judge of the truthfulness or otherwise of the witnesses by their behaviour when giving evidence, are in a much better position to arrive at a correct judgment in the case than officers at Head Quarters who have to base their decisions only upon what is recorded in the papers. It is simply a waste of time to raise pior points of law, to sift and weigh conflicting evidence, was to scrutinize documents which bear no mark of arthenticity. in a dispute which is perhaps of a hundred years' standing. Then again it should be remembered that as here powerful Jageerdars to deal with, who may have held possession of the disputed land for a number of years. In dealing with such cases, it has been generally found desirable by the Survey officers to effect a kind of compromise, when the evidence was conflicting, by giving a portion of the land in dispute to the Jagoerdars, and thus bring a long and unprofitable dissension to an end. This mode of procedure has been found to answer more effectually than that which a usually adopted by Revenue officers before us, merely to record decisions which were never executed, which resulted in interminable correspondence, and which were a fruitful source of contention between the raints of Government and Jagoer villages. If the returns in connection with the boundary dispute settlements are studied, it will be found that something like 65 per cent. of the land in dispute has Jageerdars. It will thus be seen that the Government have gained considerably and have also the satisfaction of having

many long standing disputes of this nature brought to a termination. At present the orders of the Government are that where the evidence is conflicting on both sides, no benefit is to accrue to the Jageerdar from it, but that all the land in dispute is to be given to the Government. In cases where the Jageerdars are in possession of the disputed lands, this ruling operates very prejudicially to them, and it is difficult to induce them to admit the justice of it. With all due deference, I would respectfully observe that the orders on this head are not judicious, and are calculated to cause friction between the survey officials and Jageerdars, which will result in the latter preventing the boundaries from being laid down. This will not only lead to constant references being made to Government, but will cause great delay, than which nothing is more detrimental to the successful carrying out of the survey operations.

The following statement will show in detail the number of boundary disputes that arose from 1285 down to 1290 Fash; the number of cases decided (1) between Government villages only, and (2) between Government and Jageer villages, and the number remaining to be decided at the end of the year 1290 in the North-West Division:—

un-		Total.	22	1112   2
decided at the cond of the year.	Bet	ween Government d Jageer Villages.	12	:::2 2
decid decid	Bet	tween Government Villages only.	20)	111
		Total.	19	188 142 108 103 143
	TOTAL.	Between Government and Jageer Villages.	18	886 88 88 89 89 89
	-	Between Government Villages only.	17	102 88 88 887
		Total.	16	1 10 10 11 11 11 11 11 11 11 11 11 11 11
	1290	Between Government and Jageer Villages.	151	- = = = =
6.		Between Government Villages only.	14	: : ** **   52
NUMBER DECIDED.	pm 16	Total.	133	38 38 3 183
ER		Hetween Government and Jageer Villages.	12	S S S :   95
CON		Between Government Villages only.	=	10 10 10 10 10 10 10 10 10 10 10 10 10 1
~	2851	Total.	10	118
		Between Government and Jageer Villages.	6	10 88 88
		Between Government Villages only.	00	2 4 1 1 2 2
		Total.	100	173
	1382	Between Government and Jageer Villages.	9	12 : : : 12
	Between Government Villages only.		10	100
LED.	1	Total.	4	142 142 1550 260
TES FI	Bei	tween Government and Jageer Villages.	00	
Disec	1	Between Government Villages only.	03	192 89 89 89 844
No. or Disputes Filed	Fasli Year.		1-	1285 1288 1290 1290

From the foregoing statement it will be seen that no less than 1600 coses of boundary disputes were taken on the file, and of these as many as 340 were sattled, lessing only a small number of 19 cases undecided as the end of the year 12900. I need not say that these results are very satisfactory and very creditable to the survey officers.

As many as 201 cases were decided hetween Government villages on one side and Jageer villages on the other. The land in dispute amounted to 26,764 acres; of these 17,420 acres or 65 percent, were given to Government, and 0,355 acres or 35 per cent. to Jageerdars.

As numerous boundary disputes existed in the Western Division, and us we had to do d there with powerful and often obstreperous Jageerdars, it was considered desirable to appoint a special boundary dispute settlement officer, with a few assistants under him, for the settlement of these disputes. Mr. Hormusji Bapuji, who had served in one of the Revenue Surveys under the British Government, and who had for some time received a training in the Auranghad Survey, was appointed settlement officer with about seven Assistants under him. The work done by this Department has not come up to my expectations, and I intended abolishing it at the commencement of the next official year. In the first place the Jageerdars proved very obstreperous, and acted in open defiance of Government orders, and in the next place (I have to record this with regret) Mr. pected from an officer in his position. The consequences were that comparatively few boundary disputes were

The following statement will show the number of disputes taken on file and the number settled in the Western Division, by the Department presided over by Mr.

		REMARKS.	17							
the		Total	16	177	127	301				
No. remaining undecided at the end of th year.	Gov.	Hetween Jageer and Cament Villages	12	176	127	303				
No. r	qui	Hetween Governme	N/A	-	1	7				
10		.fatoT	13	220	73	2503				
Total Case Decided.	.400	Between Jageer and C	2	186	E	259				
Tol	311	Between Governmen Villages only.	=	100		34				
		Total.	10	7.7	33	147				
'ci	1290	1390	1290	1239	1290	Between Government and Jageor Villages.	6	100	73	147
Number Decided.		Belween Government Villagus only.	90		1					
nber I		Total	ž*	146		146				
Nak	987	Between Government and Jageor Villages.	9	112		112				
		Between Government Villages only.	10	34		500				
Dis-		fotol'	4	397	200	597				
Number of Dis- putes Filed.	pur	Between Government a Jageer Villages.	60	362	200	562				
Numb	1	Between Governmen Villages only.	25	100		355				
		Year	-	1289	1290	Total				

From the foregoing statement, it will be observed that not of 307 cases taken on file, only 20g laws been decided, and as many as 304 cases have been left indeceded. I may large state that monely half of these undecided cases have been seen up by the Assertants for associate to the long-day auditement officer, and most of them have been returned to the former by the laster, cables for further usual to the former by the laster, cables for further usualities of former by the laster, cables for further usualities of former by the laster, cables for further usualities of the former by the laster, cables for further usualities of the former by the laster, cables for further usualities of the former by the laster, cables and the state of the second of th

The following statement will show the number of disputes taken on file, and the number settled in the Western Divi-

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		TANKE !	21	22
Page 1		(Leonthry)	78	
10 1		January 1	92	20
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	Total	Januaring	- Z	7.
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	120 Pach.	"accounting"	10	98
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Berno		Janoon	27	00
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CAS		-safari X .	~1	100
		Eash Year.	-	From State

From the above statement it will be seen that in all 217 cases of boundary disputes were taken on file, and of these 204 were settled, leaving only 13 cases undecided at the end of the year 1290, which is yeary satisfactory indeed.

Having in the possessing y
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Prime 1386 down to 1 a 25 t turned out by the 1886 angle a Western Division man. 2 forthway takin with many de-

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North Western		16,24	-
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Lamp here state that t smooth in the N. W. Dijust a goar 1985, and in the Wester plug of the year 1287. The second at two Divisions is a second to

Doring the present square, it is not by the two surveys and the laws surveys and the laws on the laws one laws on the laws one laws on the laws one laws on the laws of the laws on the la

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The board management work to the same

surreys, up to the season of 1991 Fasli, may therefore be set down at 98,20,844 acres.

In the North-Western Division, the Aurangabad and Beed Districts, and four talukas of the Parbhaui District, have been measured. In the Western Division, the measurement of the Naldrug, Bider, and Lingsugur Districts has been completed, and the work remains unfinished in one taluka of the Shorapour District.

The following statement will show the number of fields and area submitted to test in each Division, down to the year 1290:—

Division.	No. of Fi	eldsand ested.	Test Per on Measure Wo	aremont	Average Differ- ence between Measurement and Test per cent.	
	Fields.	Acres.	Fields.	Acres.	Acre.	Gunta.
N. Western.	24,139	5,55,262	10)	10}	1	2
Western	12,940	2,95,748	10½	10}		26.}
Totals	37,070	8,51,010	10}	106		331

The percentage of the fields tested in the two surveys is very autifactory, being 10½ per cent. of the total number of fields measured. The percentage of area tested is 10½ in the North-Western and 10½ in the Western Division. The average difference between original measurement and test is 1 acre 2 guntas in the North-West, and 25¢ guntas in the Western Division. The reason for the difference being greater in the first than in the second Division lies in the fact that in 1285, when the survey operations were first started in the Pairan Talaka, the work done was not very correct, the difference between original measurement and test for that year being 28 acres. Hence the average difference in the North-Western Division is somewhat high.

The following statement exists in detail he determine between the tests and original measurements —

Division.	No. r	No. of Fleids in which the Leftender of Conglinal and Text Memory and and according to the Congress of the Con						
	Under 1	18.6	3 8.6	20.48	ine	2000	6 P. C. seed	
N. Western	1,612 61 724 51	15,914 66 7,285 56‡	5,581 23 4,392 34	3	227 3 75 7	2000 2000 2000 2000 2000 2000 2000 200	Ser. March	
Total	2,336 6‡	23,199 624	14,973 27	1,020	200	1000	125	

The result shown is very satisfactory. The main portion of the numbers tented a only and two per cent, and very few numbers are used for cent.

From 1285 down to 1290 Fash, the classification with

turned out by the two surveys 48,14,459 acres.

The following table will afford detailed information on this head:-

Division.	No. of Villages Classed.	Survey.	Arra classed in serves.
North-West Western	1,700	1,81,897 NSS88	20,22,705 19,50,902
Total	9,214	2,01,000	48,14,499

The work done during the present season may be roughly estimated at about 9,63,382 acros in the North-Western, and 7,94,322 acros in the Western Division. The total

classification work may therefore be set down at 67,87,548 serves.

In the North-Western Division the classification were of the Autorigabed, and all but one tailors of the Beat Districts has been completed. In the Wissens Disson, the work has been founded in the Nobling Discrete, and classification operations have been started in two talekes in the Bellin District.

The following statement will show the number of following area submitted to test in each diversion, down to the year 1290; -

Distant,		Cont p	Class- Vork.	Average Difference between Measure ment and Test			
	Fields	Acres	Fields.	Acres.			
North-Western.	17,858	3,38,755	112	94	8	6	
Wasser	8,225	1,50,979	147	11/	0	0	10.0
Total	00000	4,89,734	125	50	0	8	200

The percentage of the fields eased in the two surveys is very satisfactory, being 111 in the first and 141 in the ascend Division. I may captain that in the North-Westers Division there are only two officers in each classing excluding excluding the white in the Western Division there are three, hence a higher percentage of test work has been done in the latter as compact with the formor. The percentage of ions tested is 95 in the North-Western and 111 in the Western Division. The average difference between original assessment and test is five pose in the first Division and 24 pine in the second, which, I need out say, is very satisfactory,

The following statement unlating in between the test and original characters in

	No. of Platde in which Crigital and feet to							
Division.	Rs.	From 1 Pie (o 6 Pies.		#rom 9-1-1 to 0-1-4	Magaz 04/7-0-		Name of the contribution	
North-Western. Western	2,190 12† 1,399 17	57	4,138 23   1,604 19	1,077 6 54	11 10 2	200	1	
Total	3,598	14,748 56½	5.737	1,521	254	1	9	

The result shown is very satisfactory, mushes rested fall within two same contents of the cont

The total expenditure of the two surveys, sum 1986, down to 1200 Fasti, and on which the cost par sum of the survey operations has been calculated, amounts as Rs. 11,27,438-2. The subjoined table with afford the accessary information on this head, for details see Statement & appended to this Memorrandom :—

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From the foregoing statement it will be observed on the cost per acre of measurement operations have a long of 1 anns 49 pags of classification to 29 anns as a state of the combined operations including switches at a state of the combined operations including switches as a state of the combined operations including switches as a summary of the same 2 pins (operations) contains a summary of the same 2 pins (operations) in a summary of the same and the same and the cost of the Survey Commissioner's color of a summary of the 1,567,705 is not included in the same page.

The total expenditure on the erection of marks from 1285 to 1280 Pail amounts Re. 2.75.
Of this cost, the sum of Re. 14,8,1974-11-3 spent on predigg marks on compiled hands has been seen as a long recurrent from the cultivators, and Re. 20,5,257-11 required as reducing marks on waste lands has been included in the coat of the survey. The subjoined statements will affect detailed information on this head ---

DIVISIONS		Cotel Expenditure.		18. A. P. 11.1.7.20 0 1 10.2.30,100.21 0 8 10.2.30,100.21 0 8 10.2.30,100.21 0 8 10.2.30,100.21 1 0
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TOTAL OF	p a	Houndary Mark Exp diture on occupi	0	85, 61, p. 62, 50, p. 11, 52, 54, 732 0 1 1 3, 25, 611 12 3, 25, 10, 107 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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NORTHERN		Houndary Mark Expen-	93	Rs. a. p. 82,400 11 4 1,72,100 11 2 1,72,500 11 2 1,72,500 10 0 1,122,500 0 0 1,122,500 12 3
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La the North-Westera Division, survey via background in eleven unbrised in Agreem to the second section of the Real District, In the William of the Real District, In the William Street, In the William Street, In the Street, In the William Street, Inc. and the Street, In the S

#### Nacth-Western Division

OLD RATES.			SCHOOL DAME				
Acres.	Assess- ment.	Average Rate - r Ages.	Acres.	-	-		
10,76,733	19,08,002	0 15 5	19 05,802	20,000	200		

#### William Philippine

Wen Nows.			Statute Ranks			
Астов	Assent- ment.	Average Rate per Acre.	Acton	Amarica mant.	A	
7,08,933	7,30,212	1 0 0	number.	\$,0000	5185	

From the foregoing statement it will be associated up to the N. W. Division the survey measurement as their uniforcean, as compared with the old recorded area, of a such that the 2.03,060 acres of 11.7 per cond. In the associated with the 2.03,060 acres of 12.7 per cond. In the associated by the 7.91,051 or 157 per cond. It must have contained by the condense the associated by the 2.01,051 or 157 per cond. It must have exceed to according to the old reads of the associated by the condense of the old read condense of the condense of the

crease of only five pies, which I need not say is very satisfactory.

In the Western Division, the survey measurements show an increase, as compared with the old recorded area, of 2,82,873 acres or 398 Fp ercent. In the same way, the introduction of the survey rates have increased the assessments by Rs. 1,0,986 or 18 05 per cent. The old average rate per acre was Rs. 1-0-6, the survey rate is Rs. 0-13-6, It will thus be seen that notwithstanding the increase in the amount of assessments, the average rate per acre is much lower now than what if was before.

The two statements marked D and D 1 appended to this Memorandum will give detailed information as to the area of occupied and waste lands, with the average rate per acre, in each of the settled tallukas.

The survey operations have not tended to onhance the revenues to any great extent, for this reason that the old rates of assessment had reached their maximum limits, and this did not leave much margin for any great increase. Our Talukdars understand the art of increasing the revenues by flxing heavy assessments, and so there was not much scope for increase left to the Revenue Survey. The progress the surveyed districts have made during the past twenty odd years will be seen from the two statements B and B 1 hereunto appended. A study of these statements will show that very considerable and substantial progress has been made in the agriculture of the district, as regards the number of cultivators and the cultivated area. There has been also a proportionate increase in the assessments. Hence the Revenue Survey did not in any way enhance to any extent the revenues, but it served the purpose, for which it was intended, of equalizing the assessments. I will quote on this subject from Mr. Furdoonji's Settlement Report of the Paitan Taluka :--

" 77. I would here observe that the increase of revenue

"obtained is not the result of any general enhancement " of assessment rates, but is mainly due to more accurate " measurements, by which an increase of 19,000 acres of " cultivated land has been attained over the cultivated area. " as shown in the Tehsil records. I would also remark that " the rates of assessment seem, in many instances, to have " been very unequally distributed in the Paitan taluka. I "will give an instance in point. The villages of Sioni and "Chincholi adjoin one another. According to our classi-" fication scale, the average value of the lands of the form-" or village is eight annas, while that of the latter is eight "annas and six pies. The difference between the value " of the lands of both villages is almost inappreciable. " And yet there exists an enormous difference between " the average rates of assessment of the villages in question, " for Sioni pays only six annas and three pies per acre, while, " for the same description of soil, Chincholi pays 12 annas " and eight pies per acre. The difference between these rates " is more than a hundred per cent. The subjoined state-" ment is illustrative of the unequal apportionment of the " assessment over the villages of this taluka : the villages " included in brackets adjoin one another :-

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Name of Villages.		
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The nott increase in the revenue accusacy from the application of survey rates, for the year only in which there rates were introduced, will be seen from the following states.

111	CHI.						
N	ame of Divi-	Amount of Assess- ment according to Old Rates.	Amount of Assessment according to Survey Rates after deducting for lands thrown up.	Amount of nett in- trease accruing from Survey Set- tlement.	Percentage of In- crease.	Total Cast of Survey operations.	Amount of part to exerce & Toris Co-
	W. Division			1,88,963	990	9,00,000 9,00,000	40.00
١	V. Division			85,629			400
	Total	26,38,214	29,12,806	2,74,592		0,01,000	400

From a study of these figures it will be observed that in the North-Western Division, while the acreage of the cultivated lands has, according to our measurements, increased by 147 per cent., the assessments have increased only by 9.90 per cent., which conclusively shows that there has not been any undue enhancement of assessments. In the same way, in the Western Division, while the acreage has increased by 39.87 per cent., the assessments show an increase of only 11.72 per cent. The nett increase for both Divisions, resulting from the introduction of the new rates, for the year immediately following the Survey Settlement, amounts to Rs. 2,74,592. This amount is for one year only. From 1288 Fasli, when survey rates were first introduced into the Paitan Taluka, down to the present year 1292, the nett increase accruing from the application of the survey rates amounts in the N. W. Division to Rs. 3,33,277, and in the Western Division to Rs. 1,19,841, making a total of Rs. 4,53,118, which, I need not say, is not an inconsiderable sum.

The total cost of the survey operations in the talukas

hitherto settled in the N. W. Division amounts in Rs. 4,65,494. Deducting from this amount the sum of Rs. 3.33.277, being the nett increase of revenue resulting from the introduction of survey rates, as shown above, a balance of Rs. 1,32,217 is left. Calculating on this data it may be said that in about one year more, the cost of the survey in the talukas hithorto settled will have repaid itself. In the same way, the total cost of the survey in the six talukas of the Naldrug District, in which the survey rates have been introduced, amounts to Rs. 2.01,969. Deducting from this amount the sum of Rs. 1,19,841, being the nett increase resulting from the survey settlement, as shown above, a balance of Rs. 82.128 is left. This will be recovered in about one year. It will thus be observed, that the Revenue Survey Department is in a fair way of shortly paying its own expenses, and that besides the numerous benefits it has conferred on the country, it will in future bring in revenue to Government. For detailed information see statements F appended to this Memorandum.

A glance at statement B appended to this Memorandum will show annual falling off in the revenues in some of the talukas in the Aurangabad District, in which the survey rates have been introduced. The cause of this falling off is not far to seek. The famine of 1876-77 has left its mark on the Gandamur. Vajjapur, and Paitan Talukas, and hence in that tract of country, the impoverishment of the raists has led to the contraction of their holdings. Before the introduction of to allow the cultivators to contract their holdings, and this officers, under a mistaken notion that they were benefitting both the Government and the raists, discouraged the practice of allowing the latter to relinquish parts of their holdings.

In paragraph 6 of the Joint Report it is stated :-" One manifest advantage of breaking up the assessment of " a village into portions so minute is the facility it affords " to the cultivators of contracting or enlarging their farms

" from year to year, according to the fluctuating amount of " agricultural capital and stock at their disposal, which is of

" incalculable importance to farmers possessed of so limited

" resources as those of the cultivating classes throughout "India." Again in paragraph 7, it is stated :-- "The loss

" of a few bullocks by disease, or other causes, may quite

" incapacitate a raist from cultivating profitably the extent

" of land he had previously in tillage, and without the pri-" vilege of contracting the extent of his farm, and conse-

" quent liabilities on occasion of such losses, his rain would

" be very shortly consummated."

It will casily be understood that, forcing upon the cultivators more land than they are able probably to till is to consumate their rain. Before the introduction of the survey the raises had more land than they were able to bring under the plough, and even now, when many of them have relinquished great portions of their holdings, they have on an This will readily be understood from the following table :-

Name of Division.	No. of Resistered Occupants.	Number of Bullocks.	Cultivated Area in Acres.		Average Area m Acros per each pair of Bullocks.
N. W. Division.	86,008	1,67,524	19,01,195	58.3	2017
W Division	17,058			561	20'8

the N. W. Division, on an average, there are 241 acres to each pair of bullooks, whereas a raint is only able to "off In the Western Division the average is very fair, For details see statements E uni E1 appended to the Memorandam. I now understand that the raints of the talukas of Gandapur, Vaijapur, and Paitan are beginning to recover from the effects of the famine of 1876-77, and that during the present year they have taken up waste lands (to the extent of about Re. 17,000) that had lately been thrown out of cultivation.

In the talukas of Ambad, Kannad, Bokurdhun, Sillode, and Adjunta, the introduction of the survey rates has been attended with successful results. The Jaulna and Aurangabad Talukas were settled only during the present year, and therefore just now it would be somewhat premature to form any conclusion as to the advantage or otherwise of the new settlement. But from the fact of very little land having been thrown up at the time of settlement, and from the fairly prosperous condition of these talukas, I anticipate likas our new rates will work favourably there. The result of the settlement in the Naldrug District has also been very favourable, as will be seen from statement 18.

It is natural that on the introduction of revised rates in any taluka there should be a certain amount of dissatisfaction amongst those occupants whose assessments have been enhanced. That their dissatisfaction should find vent in netitions to Head-Quarters is also natural enough. Hence I have received a few petitions from different interested Patels. Patwadis, and sometimes raiats, complaining of enhanced assessments. As a rule, I have in reply informed the petitioners that as their fields had been accurately measured, and classed, and that as a moderate assessment had, with the sanction of Government, been imposed upon their village, no steps could be taken in the matter of their complaints. Before the introduction of the survey, whenever any raiats relinquished their holdings on account of enhanced assessments, the Tebsildars used to call them together, and by dint of persuasion, and some sort of compromise, prevailed upon them to take back their lands. The raists are therefore under the impression that they have but to complain or throw up their holdings, when the same sort of persuasion would be used with them. In dealing with the raists a fittle firmness is very uccessary. When settling a portion of the Paitan. Taloka, the raists of the village of Mundapor, the assessment of which had increased by something like 30° per cent, threw up their hands. Tat once accepted their resignations of their holdings, and at the same time informed them that the lands they had relinquished would be given to the raists of other villages. A five days subsequent to this, when I was at Ahmednugger, on my way to Hydrezhad, the raists came to mo in a body and begged most carnestly that their lands should be given back to them at the new rates, and that I should forgive them for having so thoughtlessly relinquished their holdings.

The introduction of survey settlement in the different talukas was followed by a change in the forms of the village papers prepared by the Patswalis. The old forms were very complicated, and inconveniently large, and conjointly with the new settlement, it was necessary to introduce new forms. Afth some slight modifications, Mr. Hope's village forms of the bear adopted, and they work admirably well in the childaes into which they have been introduced. This measure has curisiled to a considerable extent the work of the Description.

In each tabula, a measurer on a salary of Rs. 25 per month has been appointed to annually inspect the boundary marks, with a view to their future maintenance and preservation. In the event of any dispute arising as to the boundaries of fields the measurer is to proceed to the sport, and settle it with the aid of the village map. During the first two or bree years after the survey settlement be has to inspect all the marks of every village in his stake, and after that he has to annually inspect a certain percentage of the mark of each village. No work in the different branches of the surrey has been along the different branches of the surrey. The classification has kept dispersion pace with the measurement; and, as a rule, the settlement has closely followed on the classification. To bring the three different operations of the sarvey as close to one another as possible, it has been at times necessary either to reduce or strengthen the different measuring and classing establishments.

All the accounts of both the Superintendents' offices, have been made up to the end of the year [291] Yasil, and have been finally adjusted in the Accountant General's office. All vonchers for expenditure incurred have been submitted to the Accountant General, and sanction has been obtained for every item of expenditure incurred up to the end of that year.

It must not be imagined that when once a settlement has been introduced into any one district, there is nothing more left to be done. The working of the settlement will entirely depend upon the Talukdars and Tahaildars. If these officers take an interest in their work, and understand it. thoroughly, the new settlement will work very satisfactorily, and prove of great benefit both to Government and to the raiats. If they are carcless, or if they don't understand the system on which the settlement has been made, then there will be grave fears of its proving anything but advantageous to the Government and to the raiats. To insure the satisfactory working of the survey settlement it is essentially necessary that the Talukdars and Tohsildars should be appointed from among the survey officers. Towards this end, it will be necessary to have a few extra officers attached to the Survey Department as supernumeraries, so that they may be ready to take the place of any Assistants or Sub-Assistants when they are transferred to the Revenue Department in the surveyed districts. Some time ago I had submitted a report on the subject to Government, and they

were pleased to direct that in the Aurangebal District, more but the officers from the survey should be appointed in the Revenue Department. If this is not feasable, the I would suggest that all the second and third Tallofara and Tebsildars in the surveyed districts should be attached to this Department for a time, so that they may be made an convent with the working of the settlement.

Before concluding this Memoraudum, it is necessary that I should place on record the highly valuable services that have been rendered to the Survey Department by the two Superintendents and my Assistant.

I have pointed out the difficulties I experienced at the outset in organizing the Department. It was not an easy matter when I first started the survey, to get a capable officer whom I could place at the head of the Department. I was, however, fortunate in selecting for this post Mr. Furdeonji Jamshedii, who was acting second Talukdar of the Aurangabad District, when I first mot him there in 1875. Young, energetic, intelligent, well informed and thoroughly well grounded in revenue work, he was in my opinion the best officer to whom I could entrust the work. Personally he did not care to join the Revenue Survey, but on my applying to Government they were pleased to transfer his services to this Department. At a time when almost every one was new to his work, and when a great opposition existed against the Department, Mr. Furdoonji displayed untiring energy, tact, judgment, and ability in the discharge of his duties, and in course of time he was enabled to surmount the inumerable difficulties that came in his way. In short, I may honestly assert that whatever good work has been done in the Aurangabad Survey, the credit of it is deservingly due to Mr. Furdoonji, of whose integrity, abilities, and zeal I have formed the highest opinion.

Mr. Kader Beg, who had been trained in the Roorkee

SALAR

College, and who therefore was thoroughly conversant with scientific surveying, served bis apprenticeship in the Revenue Survey as a measuring Assistant for about twoyears and a half. He conducted his duties with such remarkable abilities, gal, and diliguous, that when survey operations were started in the Nadlerg District, I at once placed lim at the head of the Department there. He has conducted his duties with integrity, seal, and ability, and he has all along very closely, superpriach the work of all his abovenituses.

Mr. Aga Shekh Mahomed, my Assistant, was employed for several years as an Assistant Engineer in the Public Works Department, and was very highly thought of by Mr. Wilkinson. He joined this Department in 1286 Fashi. He has been my Assistant since then, and has rendered the Department excellent service by making long tours in the districts, and by personally testing measuring and classing work. The different reports he made of his hours, and which exist in my office, kept me well informed of the work-going on. Mr. Shekh Mahomed is a thoroughly unright, able, and honest officer, and has given me every satisfection.

It would be unfair on my part if I were to make no mention here of the good services that have been rendered by Mr Vasodeo Trimbak. He has been of great assistance to me in settlement work, of which he had showl eighteen years' experience in the Bernr. Mr. Vasodeohas a vory good knowledge of measuring, classing, and settlement work, and he is an able, well-informed, and henest

Without mentioning each Assistant and Sub-Assistant by name, I would here simply state that, so far as I know, each and all of them, Mahomedans, Hindus, Parsees, and Christians are an efficient body of officers, and they have by their zeal, diligence, and abilities given general satisfaction.

I have drawn up this Memorandum for the information of my nuccesor, so that he may be cognizant of all the difficulties I had to struggle against, and that he may be informed of the progress the Revenue Survey has made in the Mahratan Districts of His Highness' Dominions during the seven years I have been connected with it.

> MAHADI ALI, Survey and Settlement Commissioner.

Hyderabad Deccan, 1st August, 1882.

Statement showing the amount of Work turned out by the Departs
therein together with ti

			DETAIL OF EXPENDITURE						
Fash Year.	DIVISION.	Potal Area surveyed in Acres.	Salarios of Measurers.	A out	Salario of assistant the catabiles ments.		Superintend- ent and Establish- ment.	Total	
*1	2	2	4		3			7	
	North-Western	1,92,703	6,316 13	2	8,179	7 0	7,510 15	21,013 3	
1250	Do	8,72,199	25,009 0	0	41,336	0.0	20,170 0	97,015 0 0	
	Total	10,64,908	31,285 13	3	49,515	7 5	37,286 15	6 1,15,088 3 0	
1280	North-Western	11,18,300	35,021 13	6	38,075	0 1	45,045 0	0 1,38,113 1 0	
1097	Western	6,03,303	0 11,334 6	0	12,790	8			
1188	North-Westers	11,00,000	0 33,931 9	6	13,508	8		0 1,22,003 7 21	
198	Western	9,28,418	0 21,791 12	0	42,638	1.		0 1,01,319 7 5	
128	North-Westers	11,14,014	17,830 6	6	20,752	6	37,887 10	1 1,01,000 4 10	
128	Western	0,25,510	0 23,149 10	6	37,198	7	0 35,513 3		
119	North-Wester	8,20,448	14 21,039 11	9	30,435	2	6 56,825 20	3 80,003 8 (	
129	Western	4,98,157	0 19,819 4	0	25,305	-	9 28,624 8	2 75,776 0 1	
	-	-	-	7	-	-		900	

Total for the N. 43,63,763 S 1,15,837 S S 1,71,071 S S 1,62,600 10 S 4,15,60 B

Total for the Westers D172 27,55,888 0 76,123 1 0 1,17,557 6 0 1,21,231 5 6 1,23,231 6 0 1,21,231 5 6 1,23,231 6

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